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1 Experimental study of virtual machine migration in support of reserva resources

Ming Zhao, Renato J. Figueiredo

November 2007 **VTDC '07:** Proceedings of the 3rd international workshop o technology in distributed computing

Publisher: ACM

Full text available: Pdf (630.50 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 141, Citatic

Virtual Machines are becoming increasingly valuable to resource consoli management, providing efficient and secure resource containers, along application execution environments. This paper focuses on the VM-base reservation ...

2 Got predictability?: experiences with fault-tolerant middleware

Tudor Dumitras, Priya Narasimhan

November 2007 **MC '07:** Proceedings of the 2007 ACM/IFIP/USENIX interna on Middleware companion

Publisher: ACM

Full text available: Pdf (3.53 MB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 58, Citatior

Unpredictability in COTS-based systems often manifests as occasional ir uncontrollably-high response times. A particular category of COTS syste (FT) middleware, is used in critical enterprise and embedded applicatior

3 RobuSTore: a distributed storage architecture with robust and high p

Huaxia Xia, Andrew A. Chien

November 2007 **SC '07:** Proceedings of the 2007 ACM/IEEE conference on S

Publisher: ACM

Full text available: Pdf (1.20 MB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 66, Citation

Emerging large-scale scientific applications require to access large data and robust performance. We propose RobuSTore, a storage architecture erasure codes and speculative access mechanisms for parallel write and

4

QoS mechanisms for the MAC protocol of IEEE 802.11 WLANs
José R. Gallardo, Paúl Medina, Weihua Zhuang
June 2007 **Wireless Networks** , Volume 13 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: Pdf (508.29 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 131, Citatic

There are two essential ingredients in order for any telecommunications able to provide Quality-of-Service (QoS) guarantees: connection admiss and service differentiation. In wireless local area networks (WLANs), it i

Keywords: connection admission control, leaky-bucket constrained tra access control, packet scheduling, quality of service, wireless local area

5 A utility-based unified disk scheduling framework for shared mixed-m
Akshat Verma, Rohit Jain, Sugata Ghosal
February 2008 **Transactions on Storage (TOS)** , Volume 3 Issue 4
Publisher: ACM Request Permissions
Full text available: Pdf (2.18 MB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 117, Citatic

We present a new disk scheduling framework to address the needs of a multimedia service that provides differentiated multilevel quality-of-serv media workloads. In such a shared service, requests from different user different ...

Keywords: GSP, Profit maximization, disk scheduling, shortest path

6 VSched: Mixing Batch And Interactive Virtual Machines Using Perioc Scheduling
Bin Lin, Peter A. Dinda
November 2005 **SC '05:** Proceedings of the 2005 ACM/IEEE conference on S
Publisher: IEEE Computer Society
Full text available: Pdf (8.96 MB) Additional Information: full citation, abstract, referer terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 58, Citation

We are developing Virtuoso, u system ,for distributed computing using (VMs). Virtuoso must be uble to mix batch und interactive VMs on the s hardwure, while satisfiing constraint on re- sponsiveness und compute r

7 Analysis of integration models for service composition
David Liu, Kincho H. Law, Gio Wiederhold
July 2002 **WOSP '02:** Proceedings of the 3rd international workshop on So performance
Publisher: ACM Request Permissions
Full text available: Pdf (334.32 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 28, Citation

This paper studies service integration infrastructures that support the e megaservices --- large-scale applications that are composed of autonon modules. Integration infrastructures are classified according to their cor

Keywords: FICAS, distributed data-flow, performance evaluation, servi service integration infrastructure

8 Grid resource allocation: allocation mechanisms and utilisation patte
Stefan Krawczyk, Kris Bubendorfer
January 2008 **AusGrid '08: Proceedings of the sixth Australasian work computing and e-research - Volume 82** , Volume 82
Publisher: Australian Computer Society, Inc.
Full text available: Pdf (2.45 MB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 151, Citatic

Grid systems have been put to remarkable use in recent years. Finding rendering multi-million dollar movies, and helping to understand diseas the examples grid systems have been used for. With business turning t using ...

9 Eliciting honest value information in a batch-queue environment
Andrew Mutz, Rich Wolski, John Brevik
September 2007 **GRID '07: Proceedings of the 8th IEEE/ACM International** Grid Computing
Publisher: IEEE Computer Society
Full text available: Pdf (922.83 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 10, Citation

Markets and auctions have been proposed as mechanisms for efficiently allocating resources in a number of different computational settings. Ec approaches to resource allocation in batch-controlled systems, however difficult ...

10 Performance evaluation of routing protocols for ad hoc wireless netw
Azzedine Boukerche
August 2004 **Mobile Networks and Applications** , Volume 9 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: Pdf (237.28 KB) Additional Information: full citation, abstract, referer terms

Bibliometrics: Downloads (6 Weeks): 41, Downloads (12 Months): 378, Citatic

A mobile ad hoc network is a collection of autonomous mobile nodes tha with each other over wireless links. Such networks are expected to play important role in future civilian and military settings, being useful for pr

Keywords: mobile ad hoc networks, performance evaluation, wireless

11 Modeling optimistic concurrency using quantitative dependence anal
Christoph von Praun, Rajesh Bordawekar, Calin Cascaval

February 2008 **PPoPP '08:** Proceedings of the 13th ACM SIGPLAN Symposi and practice of parallel programming

Publisher: ACM Request Permissions

Full text available: Pdf (435.38 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 260, Citatic

This work presents a quantitative approach to analyze parallelization op programs with irregular memory access where potential data dependen available parallelism. The model captures data and causal dependencies

Keywords: available parallelism, dependence analysis, dependence de parallelism, optimistic concurrency, program parallelization, transaction

12 Race conditions in coexisting overlay networks

Ram Keralapura, Chen-Nee Chuah, Nina Taft, Gianluca Iannaccone

February 2008 **IEEE/ ACM Transactions on Networking (TON)** , Volume 1

Publisher: IEEE Press

Full text available: Pdf (1.94 MB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 171, Citatic

By allowing end hosts to make independent routing decisions at the app different overlay networks may unintentionally interfere with each othe describes how multiple similar or dissimilar overlay networks could expe

Keywords: interaction between multiple overlay networks, race conditi synchronization, traffic oscillations

13 Measurement-based admission control with aggregate traffic envelo

Jingyu Qiu, Edward W. Knightly

April 2001 **IEEE/ ACM Transactions on Networking (TON)** , Volume 9 Issue

Publisher: IEEE Press

Full text available: Pdf (200.91 KB) Additional Information: full citation, references, citec review

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 55, Citation

Keywords: admission control, quality of service, real-time flows, traffic

14 Bandwidth allocation in a self-managing multimedia file server

Vijay Sundaram, Prashant Shenoy

October 2001 **MULTIMEDIA '01:** Proceedings of the ninth ACM internationa Multimedia

Publisher: ACM Request Permissions

Full text available: Pdf (299.16 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 19, Citation

In this paper, we argue that manageability of file servers is just as impc more, as performance. We focus on the design of a self-managing file s the specific problem of automating bandwidth allocation to application c

15

Flexible and adaptive QoS control for distributed real-time and embe middleware
Richard E. Schantz, Joseph P. Loyall, Craig Rodrigues, Douglas C. Schmidt, Krishnamurthy, Irfan Pyarali
June 2003 **Middleware '03:** Proceedings of the ACM/IFIP/USENIX 2003 In Conference on Middleware
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (369.14 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 25, Citatior

Computing systems are increasingly distributed, real-time, and embedd must operate under highly unpredictable and changeable conditions. To predictable mission-critical quality of service (QoS) end-to-end, QoS-en services ...

16 Proceedings of the 2008 international workshop on Data-aware distr computing
Tevfik Kosar
June 2008 **DADC '08:** Proceedings of the 2008 international workshop on D distributed computing
Publisher: ACM
Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citatic

I am pleased to welcome everybody to the International Workshop on D Distributed Computing (DADC 2008), which is held in conjunction with t Symposium on High Performance Distributed Computing (HPDC 2008). scientific ...

17 Resynchronization and controllability of bursty service requests
Hani Jamjoom, Padmanabhan Pillai, Kang G. Shin
August 2004 **IEEE/ ACM Transactions on Networking (TON)** , Volume 12 I
Publisher: IEEE Press
Full text available: Pdf (980.39 KB) Additional Information: full citation, abstract, referer terms, review

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 29, Citation

There is an increasing prevalence of interactive Web sessions in the Inte mostly short-lived TCP connections that are delay-sensitive and have tr dominated by TCP backoffs, if any, during connection establishment. Ur

Keywords: TCP performance, traffic characterization, traffic control

18 A job scheduling framework for large computing farms
Gabriele Capannini, Ranieri Baraglia, Diego Puppin, Laura Ricci, Marco Pasc
November 2007 **SC '07:** Proceedings of the 2007 ACM/IEEE conference on S
Publisher: ACM
Full text available: Pdf (326.25 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 111, Citatior

In this paper, we propose a new method, called Convergent Scheduling, continuous stream of batch jobs on the machines of large-scale comput method exploits a set of heuristics that guide the scheduler in making d

Keywords: computing farm, deadline scheduling, job scheduling, softw scheduling

19 Enforcing cooperative resource sharing in untrusted P2P computing
Zhengqiang Liang, Weisong Shi
December 2005 **Mobile Networks and Applications** , Volume 10 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: Pdf (436.36 KB) Additional Information: full citation, abstract, referer terms, review

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 96, Citation

Peer-to-Peer (P2P) computing is widely recognized as a promising parac next generation distributed applications. However, the autonomous, het decentralized nature of participating peers introduces the following chal

Keywords: P2P, cooperative, economic model, heterogeneous, resourc model, untrusted environment

20 VGE - A Service-Oriented Grid Environment for On-Demand Supercc
Siegfried Benkner, Ivona Brandic, Gerhard Engelbrecht, Rainer Schmidt
November 2004 **GRID '04:** Proceedings of the 5th IEEE/ACM International \ Computing
Publisher: IEEE Computer Society
Full text available: Pdf (132.43 KB) Additional Information: full citation, abstract, referer

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 25, Citation

In this paper, we present the Vienna Grid Environment, a service-orient infrastructure based on standard Web Services technologies. VGE auton provision of HPC applications as Grid services for on-demand supercom simplifies the ...

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